

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **61238319 A**
(43) Date of publication of application: **23.10.1986**

(51) Int. Cl **B01D 53/22**
 B01D 13/00

(21) Application number: **60081687**

(22) Date of filing: **17.04.1985**

(71) Applicant: **DAINIPPON INK & CHEM INC
KAWAMURA INST OF CHEM RES**

(72) Inventor: **OGAWA HIROSHI
ONODERA NORIMASA
TAI HIROSHI**

(54) SELECTIVE GAS PERMEABLE MEMBRANE

(57) Abstract:

PURPOSE: To obtain a gas permeable membrane having high oxygen transmission coefficient and selectivity, by forming a membrane from a polycondensation reaction product of a polysiloxane derivative having a perfluoro group and a polyurethane derivative.

CONSTITUTION: A polysiloxane derivative containing a group having a perfluoroalkyl group itself and a group containing a perfluoroalkylaminosulfone group and a

polyurethane derivative, which was obtained by reacting bis-phenol A and 4,4'-diphenylmethane diisocyanate, are subjected to polycondensation reaction. The polycondensation reaction is performed by preliminarily introducing a terminal dimethylamino group into a polysiloxane derivative so as to react the same with the terminal dihydroxyl group of the polyurethane derivative. The obtained block copolymer is dissolved in a solvent such as chloroform or THF to prepare a casting solution which is, in turn, cast onto a flat plate and a solvent is naturally evaporated to make it possible to form a transparent membrane.

COPYRIGHT: (C)1986,JPO&Japio